

**OPINIONS AND DECLARATIONS
RENDERED BY THE INTER-
NATIONAL COMMISSION ON
ZOOLOGICAL NOMENCLATURE**

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

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OPINION 537

Designation under the Plenary Powers of type species in harmony with accustomed usage for the genera *Encrinurus* Emmrich, 1844, and *Odontochile* Hawle & Corda, 1847, and validation under the same Powers of the specific name *punctatus* Wahlenberg, 1821, as published in the combination *Entomostracites punctatus* (Class Trilobita)

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INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 537

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Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

OPINION 537

**DESIGNATION UNDER THE PLENARY POWERS OF TYPE SPECIES
IN HARMONY WITH ACCUSTOMED USAGE FOR THE GENERA
“ ENCRINURUS ” EMMRICH, 1844, AND “ ODONTOCHILE ”
HAWLE & CORDA, 1847, AND VALIDATION UNDER
THE SAME POWERS OF THE SPECIFIC NAME
“ PUNCTATUS ” WAHLENBERG, 1821, AS
PUBLISHED IN THE COMBINATION “ ENTO-
MOSTRACITES PUNCTATUS ” (CLASS
TRILOBITA)**

RULING :—(1) The following action is hereby taken under the Plenary Powers :—

- (a) The under-mentioned name and the under-mentioned usage of a name are hereby suppressed for the purposes both of the Law of Priority and of the Law of Homonymy :—
- (i) *punctatus* Brünnich, 1781, as published in the combination *Trilobus punctatus* ;
- (ii) *punctatus*, all uses of, in combination with the generic name *Trilobus* Brünnich, 1781, subsequent to Brünnich, 1781, and prior to the publication by Wahlenberg in 1821 of the above specific name in combination with the generic name *Entomostracites* Wahlenberg, 1821.
- (b) It is hereby directed that the binomen *Entomostracites punctatus* as published by Wahlenberg in 1821 be treated as being a scientific name (binominal combination) then published for the first time.
- (c) The specific name *punctatus* Wahlenberg, 1821, as published in the combination *Entomostracites punctatus*, as specified in (b) above is hereby validated.
- (d) It is hereby directed that the specific name *punctatus* Wahlenberg, 1821, as published in the combination *Entomostracites punctatus*, be interpreted by reference to the lectotype selected therefor by Tripp (R.P.) & Whittard (W.F.) (1956) and illustrated in the plate then published by those authors and now republished in the present *Opinion*.
- (e) All selections of type species for the nominal genera in the Class Trilobita specified in Column (1) below made prior to the present Ruling are hereby set aside and the nominal species specified in column (2) below are hereby severally designated to be the type species of the genera in question :—

Name of Genus	Nominal species here designated under the Plenary Powers to be the type species of genus specified in Column (1)
(1)	(2)
(i) <i>Encrinurus</i> Emmrich, 1844	<i>Entomostracites punctatus</i> Wahlenberg, 1821, as validated under the Plenary Powers in (b) and (c) above and as defined under the same Powers in (d) above
(ii) <i>Odontochile</i> Hawle & Corda, 1847	<i>Asaphus hausmanni</i> Brongniart, 1822.

(2) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Encrinurus* Emmrich, 1844 (gender : masculine) (type species, by designation under the Plenary Powers in (1)(e)(i) above : *Entomostracites punctatus* Wahlenberg, 1821, as validated under the Plenary Powers in (1)(b) and (1)(c) above and as defined under the same Powers in (1)(d) above) (Name No. 1328) ;
- (b) *Odontochile* Hawle & Corda, 1847 (gender : feminine) (type species, by designation under the Plenary Powers in (1)(e)(ii) above : *Asaphus hausmanni* Brongniart, 1822) (Name No. 1329).

(3) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *punctatus* Wahlenberg, 1821, as published in the combination *Entomostracites punctatus*, as validated under the Plenary Powers in (1)(b) and (1)(c) above and as defined under the same Powers in (1)(d) above (specific name of type species of *Encrinurus* Emmrich, 1844) (Name No. 1595) ;
- (b) *hausmanni* Brongniart, 1822, as published in the combination *Asaphus hausmanni* (specific name of type species of *Odontochile* Hawle & Corda, 1847) (Name No. 1596).

(4) The under-mentioned specific name and the under-mentioned usage of a name are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *punctatus* Brünnich, 1781, as published in the combination *Trilobus punctatus*, as suppressed under the Plenary Powers in (1)(a)(i) above (Name No. 569) ;
- (b) *punctatus*, all uses of, in combination with the generic name *Trilobus* Brünnich, 1781, subsequent to Brünnich, 1781, and prior to the publication by Wahlenberg in 1821 of the above specific name in combination with the generic name *Entomostracites* Wahlenberg, 1821, suppressed under the Plenary Powers in (1)(a)(ii) above (Name No. 570).

(5) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name No. 255 :—

ENCRINURIDAE Angelin, 1854 (type genus : *Encrinurus* Emmrich, 1844).

I. THE STATEMENT OF THE CASE

The present case was first brought to the attention of the Office of the Commission in a letter dated 5th January 1956 in which Professor W. F. Whittard (*University of Bristol, Bristol, England*) raised the question of

obtaining from the International Commission a Ruling which would secure for the genus *Encrinurus* Emmrich, 1844 (Class Trilobita) a type species in harmony with accustomed usage. The request so submitted was supported by Mr. W. P. Tripp (*Glasgow*) as prospective co-applicant in the proposal to be placed before the Commission. Examination of the problem so raised disclosed a number of points of detail requiring separate consideration, but by the late summer of 1956 these points had all been cleared up and on 10th September of that year Mr. Tripp formally submitted on his own behalf and on that of Professor Whittard an application for the use by the Commission of its Plenary Powers for the purpose of maintaining the established interpretation of the nominal genus *Encrinurus* Emmrich. The application so submitted was as follows:—

Proposed use of the Plenary Powers (a) to designate type species in harmony with accustomed usage for the genera "Encrinurus" Emmrich, 1844, and "Odontochile" Hawle & Corda, 1847, and (b) to validate the specific name "punctatus" Wahlenberg, 1821, as published in the combination "Entomostracites punctatus" (Class Trilobita)

By

RONALD PEARSON TRIPP

(*Glasgow*)

and

WALTER FREDERICK WHITTARD

(*Bristol*)

Plate 3¹

The object of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers to designate *Entomostracites punctatus* Wahlenberg, 1821, as represented by the pygidium, as the type species of the genus *Encrinurus* Emmrich, 1844 (Class Trilobita), and to suppress the name *Trilobus punctatus* Brünnich, 1781, for all purposes. This application is made in order to avoid confusion in the nomenclature of this widely occurring Ordovician and Silurian genus, and also to obtain a ruling for incorporation in the *Treatise on Invertebrate Paleontology*.

2. M. T. Brünnich in 1781 (: 394) described, but did not figure, a trilobite as "*Trilobus punctatus*, annulis corporis punctis per series transversim notatis".

3. G. Wahlenberg in 1821 (: 32, pl. ii, figs. 1, 1*) described and figured a cranidium and a pygidium as *Entomostracites punctatus* quoting Brünnich as the author. The cranidium illustrated as fig. 1 represents a calymenid; the pygidium illustrated as fig. 1* is of the form now always accepted as characterising *Encrinurus*.

4. H. F. Emmrich in 1844 (: 16) founded the genus *Encrinurus* upon *Entomostracites punctatus* Wahlenberg, 1821, the only species which he referred to the genus. Both the derivation of the name *Encrinurus* and the diagnosis of the genus indicate that Emmrich was impressed chiefly by the characters of the pygidium.

¹ The plate here referred to appeared as Plate 3 in the *Bulletin of Zoological Nomenclature* and has been reproduced in the present *Opinion* as Plate 1.

5. W. F. Whittard in 1938 (: 122) recorded that Professor Christian Poulsen (*Copenhagen*) and he examined Brünnich's two type pygidia, and that probably *Trilobus punctatus* Brünnich, 1781 and *Dalmanites [sic] hausmanni* (Brongniart, 1822) are synonymous. Whittard stated his opinion that the pygidium figured by Wahlenberg automatically became the type specimen of *Encrinurus punctatus*, overlooking the fact that Wahlenberg had quoted Brünnich as the author of the species. If Whittard and Poulsen's opinions concerning *Trilobus punctatus* Brünnich, 1781, are correct and if the normal provisions of the rules were applied in this case there would be immense confusion for the name *Encrinurus*, the type genus of a widely distributed family, would be transferred to a species belonging to an entirely different family of trilobites, and the species named *Asaphus hausmanni* Brongniart would need to be referred to the synonymy of *Encrinurus punctatus* Brünnich.

6. In order to avoid the necessity for this change in current nomenclature, we recommend that the combination *Entomostracites punctatus*, as published by Wahlenberg, 1821, is to be treated as a combination then published for the first time. In anticipation of the approval of the Commission to this application, we hereby select the pygidium which Wahlenberg, 1821, figured as pl. ii, fig. 1* as the lectotype. This specimen is now preserved in the museum of the Palaeontological Institute of Uppsala under the number 1200 ; it is from Gotland but the exact locality is unknown. A label has been affixed to the specimen stating that it has been selected by the present authors as the lectotype of *Entomostracites punctatus* Wahlenberg, 1821, and that the International Commission on Zoological Nomenclature has been asked to validate this selection under its Plenary Powers. Annexed to the present application is a plate (Pl. 3)² on which are given photographs of the lateral view (fig. 1) and of the dorsal view (fig. 2) of the pygidium of the specimen here selected as the lectotype.

7. R. and E. Richter, 1931 (: 140) considered *Asaphus hausmanni* Brongniart, 1822, to be the type species of the genus *Odontochile* Hawle & Corda, 1847 (: 208), and this opinion has been followed by later authors. However, Vogdes, 1925, had earlier selected *Odontochile applanatus* Hawle and Corda, 1847, as the type species. So far as is known Barrande, 1852 (: 538), was correct in regarding these two nominal species as subjectively identical with one another.

8. Family-Group Name. The genus *Encrinurus* Emmerich is the type genus of the family ENCRINURIDAE Angelin, 1854 (: 88). This family name should be placed on the *Official List of Family-Group Names in Zoology*. There is no family-group name based on the genus *Odontochile*.

Recommendations

9. In the light of the considerations advanced in the present application, the International Commission on Zoological Nomenclature is asked :—

(1) to use its Plenary Powers :—

(a) to suppress the under-mentioned name and the under-mentioned usage of a name for the purposes both of the Law of Priority and of the Law of Homonymy :—

(i) *punctatus* Brünnich, 1781, as published in the combination *Trilobus punctatus* ;

² See Footnote 1.

- (ii) *punctatus*, all usages of, in combination with the generic name *Trilobus* Brünnich, 1781, subsequent to Brünnich, 1781, and prior to the publication by Wahlenberg in 1821 of the above specific name in combination with the generic name *Entomostracites* Wahlenberg, 1821 ;
- (b) to direct that the binomen *Entomostracites punctatus* as published by Wahlenberg in 1821 be treated as being a scientific name (binominal combination) then published for the first time and to validate the specific name *punctatus* Wahlenberg, 1821, so published ;
- (c) to direct that the specific name *punctatus* Wahlenberg, 1821, as published in the combination *Entomostracites punctatus*, be interpreted by reference to the lectotype selected therefor by Tripp and Whittard in paragraph 6 of, and illustrated in the plate annexed to, the present application ;
- (d) under the procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948, for determining the type species of a genus based upon a misidentified type genus, (i) to set aside all designations or selections of a type species for the genus *Encrinurus* Emmrich, 1844 (Class Trilobita) made prior to the Ruling now asked for, and (ii), having done so, to designate as the type species of the above genus the nominal species *Entomostracites punctatus* Wahlenberg, 1821, as validated under the Plenary Powers under (b) above and as interpreted under the same Powers in (c) above ;
- (e) to set aside all type selections for the genus *Odontochile* Hawle & Corda, 1847 (Class Trilobita) made prior to the Ruling now asked for, and, having done so, to designate as the type species of the foregoing genus, the nominal species *Asaphus hausmanni* Brongniart, 1822 ;
- (2) to place the under-mentioned generic names on the *Official List of Generic Names in Zoology* :—
- (a) *Encrinurus* Emmrich, 1844 (gender : masculine) (type species, by designation under the Plenary Powers under (1)(d) above : *Entomostracites punctatus* Wahlenberg, 1821, as validated and interpreted under the foregoing Powers under (1)(b) and (1)(c) above respectively) ;
- (b) *Odontochile* Hawle & Corda, 1847 (gender : masculine)³ (type species, by designation under the Plenary Powers under (1)(e) above : *Asaphus hausmanni* Brongniart, 1822) ;
- (3) to place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :—
- (a) *punctatus* Wahlenberg, 1821, as published in the combination *Entomostracites punctatus* and as validated and interpreted under the Plenary Powers under (1)(b) and (1)(c) above respectively (specific name of type species of *Encrinurus* Emmrich, 1844) ;

³ For a review of the gender to be attributed to the name *Odontochile*, see paragraph 12 of the present *Opinion*.

- (b) *hausmanni* Brongniart, 1822, as published in the combination *Asaphus hausmanni* (specific name of type species of *Odontochile* Hawle & Corda, 1847) ;
- (4) to place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the name and the usages of a name specified in (1)(a) above, as there suppressed under the Plenary Powers ;
- (5) to place the under-mentioned family-group name on the *Official List of Family-Group Names in Zoology* : ENCRINURIDAE Angelin, 1854 (type genus : *Encrinurus* Emmrich, 1844).

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- Wahlenberg, G., 1821, " Petrificata telluris Svecanae ", *Nova Acta Soc. Sci. Upsal.*, (5) 8, Upsaliae
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Explanation to Plate attached to the present application [Pl. 3⁴]

" *Entomostracites punctatus* " Wahlenberg, 1821

Illustrations of the lectotype selected by Tripp (R.P.) and Whittard (W.F.) in paragraph 6 of the present application (specimen figured by Wahlenberg, 1821, Pl. II. fig. 1).

Fig. 1. Lateral view of the pygidium

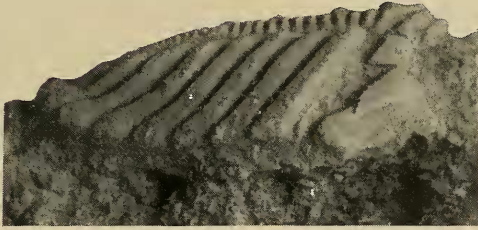
Fig. 2. Dorsal view of the pygidium

The photographs are four times the natural size. They have not been retouched.

For these photographs the authors are indebted to Mr. N. Hjorth and Dr. V. Jaanusson, Palaeontological Institute of Uppsala University.

⁴ See Footnote 1.

1



2



For explanation see opposite page.

II. THE SUBSEQUENT HISTORY OF THE CASE

2. Registration of the present application : Upon the receipt of Professor Whittard's preliminary enquiry, the question of securing for the genus *Encrinurus* Emmrich, 1844 (Class Trilobita), a type species in harmony with accustomed usage was allotted the Registered Number Z.N.(S.) 1059.

3. Publication of the present application : The present application was sent to the printer on 22nd August 1956 and was published on 31st October of that year in Part 10 of Volume 12 of the *Bulletin of Zoological Nomenclature* (Tripp & Whittard, 1956, *Bull. zool. Nomencl.* **12** : 259-263).

4. Issue of Public Notices : Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51-56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 31st October 1956 (a) in Part 10 of Volume 12 of the *Bulletin of Zoological Nomenclature* (the Part in which the application by Mr. Tripp and Professor Whittard was published) and (b) to the other prescribed serial publications. In addition such Notice was given to four general zoological publications and to three palaeontological serials in Europe and America.

5. Support received : The publication of the present application and the issue of Public Notices as to the possible use by the Commission of its Plenary Powers in connection therewith elicited comments from three specialists (Denmark, one ; United Kingdom, two), all of whom supported the proposals submitted. The communications so received are reproduced in the immediately following paragraphs.

6. Support received from C. J. Stubblefield : On 5th February 1957, Dr. C. J. Stubblefield (*Geological Survey and Museum, London*) addressed the following letter of support to the Office of the Commission (Stubblefield, 1957, *Bull. zool. Nomencl.* **13** : 103) :—

I wholeheartedly support the proposal that the well-known generic name *Encrinurus* be validated as based upon *Entomostracites punctatus* Wahlenberg, since this usage is in accord with current practice among trilobite workers.

I also support the proposal that the generic name *Odontochile* should be validated as based upon *Asaphus hausmanni* Brongniart. I consider, however, that the genus *Odontochile* should be attributed to Corda in Hawle and Corda, rather than to Hawle and Corda unless the Commission chooses to rule that the *Prodrom einer Monographie der böhmischen Trilobiten* published as a separate work in Prague in 1847 is a joint work despite Hawle's subsequent disclaimer of co-authorship.⁵

7. Support received from Christian Poulsen : On 7th February 1957, Dr. Christian Poulsen (*Universitetets Mineralogisk-Geologiske Institut, Denmark*) addressed the following letter of support to the Office of the Commission (Poulsen, 1957, *Bull. zool. Nomencl.* **13** : 102) :—

The purpose of this letter is to inform the International Commission that I support the application of Dr. R. P. Tripp and Dr. F. W. Whittard re :

⁵ Such a decision has now been taken by the Commission in *Direction 95* (*Ops. Decls. int. Comm. zool. Nomencl.* **18** : (ix)-(xxiv)).

Encrinurus Emmrich, 1844, and *Odontochile* Hawle & Corda, 1847, etc., and that I recommend the actions proposed in their application.

8. Support received from James L. Begg : On 18th March 1957, Dr. James L. Begg (*Glasgow*) addressed the following letter of support to the Office of the Commission (Begg, 1957, *Bull. zool. Nomencl.* **13** : 136) :—

I have read the separate by my friends Mr. Ronald Tripp and Professor Whittard. The trilobite pygidium figured on Plate 3 I have always identified as *Encrinurus punctatus* Emmrich, but in view of what is stated in the *Bulletin* I quite agree that it should now be named *Entomostracites punctatus* Wahlenberg.

9. No Objection Received : No objection to the action proposed in the present case was received from any source.

III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

10. Issue of Voting Paper V.P.(57)35 : On 15th May 1957 a Voting Paper (V.P.(57)35) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the species to be accepted as the type species of the genus *Encrinurus* Emmrich, 1844 (Class Trilobita) and associated matters as set out in Points (1) to (5) in paragraph 9 on pages 261–262 of Volume 12 of the *Bulletin of Zoological Nomenclature* " [i.e. in the Points numbered as above in paragraph 9 of the paper reproduced in the first paragraph of the present *Opinion*].

11. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period would normally have closed on 15th August 1957. For the reasons explained in the Minute reproduced in paragraph 13 below this Period was however later extended in order to permit of the examination of a problem in regard to one of the names involved which had arisen since the issue of the above Voting Paper.

12. Substitution of a Revised Proposal as to the gender to be attributed to the generic name " *Odontochile* " Hawle & Corda, 1847 : On 1st August 1957, Mr. Hemming as Secretary, executed the following Minute containing supplementary information as to the gender properly attributable to the generic name *Odontochile* Hawle & Corda, 1847, one of the names proposed in this case for addition to the *Official List*, and placing on record and endorsing the withdrawal by the applicants of the proposal that the gender to be attributed to the above generic name on the said *List* be the masculine gender and the substitution therefor of a revised proposal that the gender to be so attributed be the feminine gender :—

**Review of the gender to be attributed to the generic name
" *Odontochile* " Hawle & Corda, 1847**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

On receipt of his copy of Voting Paper V.P.(57)35 relating to the generic names *Encrinurus* Emmrich, 1844, and *Odontochile* Hawle & Corda, 1847,

Professor Tadeusz Jaczewski (*Warsaw*) expressed the view that the attribution in the application of the masculine gender to the generic name *Odontochile* Hawle & Corda must have been due to some piece of inadvertence which should now be corrected. Immediately upon receiving from Professor Jaczewski the note referred to above, I raised the above point both with Mr. R. P. Tripp, the senior applicant in the present case, and with Professor the Rev. L. W. Grensted, Consulting Classical Adviser to the International Commission, and asked each for observations and advice.

2. Mr. Tripp in a letter dated 15th June 1957 replied that he had originally attributed the masculine gender to the generic name *Odontochile* because he had been advised that it should be treated as a Latinised compound word of Greek origin, having the meaning "thousand-toothed" (*ὀδούς*, tooth; *χίλιος* thousand). Mr. Tripp added:—"It must be admitted, however, that this term hardly applies to the morphology of the form in question, and possibly some other interpretation of the derivation would be more apt . . . I shall be interested to hear, and quite prepared to agree to, whatever the Commission's Consulting Classical Adviser recommends."

3. Professor Grensted furnished two Reports, the first before he had seen Mr. Tripp's letter of 15th June 1957, the second afterwards. These Reports were as follows:—

(a) Report dated 14th June 1957

Odontochile: I see no reason at all for making this masculine [the gender attributed in the original application]. The bee, *Megachile*, is treated as feminine. These are curious formations, but the obvious thing to do is to treat these words as feminine formations (like *Melanippe*, *Xanthippe* or in modern nomenclature *Orsodacne* Latreille, 1802, which its author prudently but in vain altered to *Orsodacna* in 1804). Nobody has ever wanted to make these names in "-e" neuter. *Odontochile* must be feminine, so far as its form goes.

(b) Report dated 23rd June 1957

Thank you for sending me a copy of Mr. Tripp's letter. The derivation [of *Odontochile*] cannot be from *χίλιος* (a thousand), which makes no sense, and in any case would not affect the gender which must be feminine by the simple form of the name. Like *Megachile*, it is a rather queer derivative noun. It is from *ὀδούς* (a tooth) and *χείλος* (a lip). *Megachile* is simply "big-lipped" from *μέγας* and *χείλος*. It comes under Copenhagen Decision 84(3) in any case. The genders of *ὀδούς* and *χείλος* are quite irrelevant.

4. On 29th July 1957, Mr. Tripp (on receiving a copy of Professor Grensted's Report of 23rd June) replied that he most willingly accepted Professor Grensted's conclusions.

5. It is clear from the information now available that the attribution in the original application of the masculine gender to the name *Odontochile* was incorrect and that the true gender is the feminine gender. For this reason and because of the withdrawal by the applicants of their proposal that the masculine gender be attributed to the above generic name I now as Secretary hereby direct that in the above respect Application Z.N.(S.) 1059 be amended

by the insertion therein of a proposal that the gender to be attributed to the generic name *Odontochile* Hawle & Corda, 1847, be the feminine gender in place of the masculine gender originally proposed.

13. Extension of the Voting Period for Voting Paper V.P.(57)35 : On 2nd August 1957 Mr. Hemming as Secretary executed the following Minute extending the Voting Period in respect of Voting Paper V.P.(57)35 in order to permit of certain further investigations into the relationship between two nominal species involved in connection with the genus *Odontochile* Hawle & Corda, 1847 :—

**Extension of the Prescribed Voting Period for Voting
Paper V.P.(57)35**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

Under cover of a letter dated 16th July 1957 received in the Office of the Commission on 31st July 1957, Professor J. Chester Bradley has raised a point as to the relationship between the nominal species *Odontochile applanatus* Hawle & Corda, 1847, and *Asaphus hausmanni* Brongniart, 1822, of which the former is the type species under the *Règles* of the genus *Odontochile* Hawle & Corda, 1847, and the latter the species recommended in the application for designation as type species under the Plenary Powers.

2. The question raised by Professor Bradley is one which should be investigated before a decision is taken by the Commission on the issues involved in the present case. In order to permit of this being done, while at the same time avoiding any unnecessary delay in the reaching of a decision on this case by the International Commission, I now as Secretary hereby direct :—

- (a) that immediate consultations be undertaken by the Office of the Commission with Mr. R. P. Tripp and Professor W. F. Whittard, the applicants in the present case, and, if necessary, with other specialists in the group concerned for the purpose of clearing up the questions raised by Professor Bradley regarding the relationship to one another of the nominal species specified in paragraph 1 above ;
- (b) that the Prescribed Voting Period in respect of Voting Paper V.P.(57)35 be extended beyond 15th August 1957 for such period as may be necessary in order to make it possible to bring the consultations prescribed in (a) above to a satisfactory conclusion.

14. Report on the relationship between the actual type species of the genus "Odontochile" Hawle & Corda, 1847, and the species proposed to be designated as such under the Plenary Powers : On 5th February 1958, Mr. Hemming as Secretary executed the following Minute in which he set out the results of the investigations undertaken in consultation with the applicants in regard to the relationship between the nominal species *Odontochile applanatus* Hawle & Corda, 1847, the type species under the *Règles* of the genus *Odontochile* Hawle & Corda, 1847, and *Asaphus hausmanni* Brongniart, 1822, the nominal species recommended by the applicants for designation under the Plenary Powers to be

the type species of the above genus. In the same Minute Mr. Hemming gave directions that the Report so submitted be included in the Commission's *Opinion* on this case when it came to be prepared :—

On the reasons underlying the request that the nominal species "Asaphus hausmanni" Brongniart, 1822, be designated type species of the genus "Odontochile" Hawle & Corda, 1847

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

Towards the end of the Prescribed Voting Period Professor J. Chester Bradley (*Cornell University, Ithaca, N.Y., U.S.A.*) addressed to the Office of the Commission a letter (dated 16th July 1957), in which, after observing that the proposals submitted in regard to the designation of a type species for *Odontochile* Hawle & Corda, 1847, were only distantly related to that submitted for the determination of the identity of the type species of *Encrinurus* Emmrich, he expressed the view that there was a problem in regard to the first of these cases which required to be solved before the Commission agreed to use its Plenary Powers in the manner proposed.

2. The comment made by Professor Bradley in regard to the *Odontochile* case was as follows :—

According to the petitioners the type species of *Odontochile* Hawle & Corda, 1847, is *O. applanatus* H. & C., 1847. Their petition seeks to change the type species to a subjective synonym, *Asaphus hausmanni* Brongniart by invoking the Plenary Powers. No assertion is made that confusion would result if this were not done, and since the two nominal species have been held to be subjective synonyms since 1852 (cf. par. 7 of the petition) it cannot be held that confusion would arise.

3. On receipt of the above communication I entered into correspondence with the joint applicants in the present case for the purpose of ascertaining more fully the factual background as regards the matters raised by Professor Bradley. On the basis of the information so obtained I wrote a letter to Professor Bradley as follows on 6th January 1958 :—

It now appears that the synonymy between the two names [*O. applanatus* Hawle & Corda, 1847, and *Asaphus hausmanni* Brongniart, 1822] has been accepted at second-hand by one author after another and that in fact the only authority for it is that of Barrande (1852). We all know of cases where the opinion of a single author has been uncritically copied from one work to another but it is seldom that this is found to have persisted for so long a period. Now however that we know what is the position in this case, we see that the identification of *applanatus* and *hausmanni* rests on very insecure foundations, more especially in view of the fact that the nominal species *Odontochile applanatus* has never been figured and the description given for it by Hawle & Corda is considered by the applicants to be not diagnostic. Indeed, they state that, in their view, this name should be regarded as a *nomen dubium*. In recent times a number of previously rejected "Hawle & Corda" species have been brought to life as the result of investigations of Barrandian material by Czech palaeontologists and, as the applicants point out, there is a possibility that at some future date the type material of *applanatus* Hawle & Corda may come

to light in the above collection and may be found to consist of specimens of some species other than *hausmanni*. Hawle & Corda themselves, it may be noted, regarded *applanatus* and *hausmanni* as distinct species and it was only through the action of Barrande that they have come to be identified with one another.

It was because the applicants in this case considered it important that the position of *Odontochile* should be assured that they recommended in their paper that the Commission should use its Plenary Powers to designate the known species *A. hausmanni* to be the type species of this genus in place of the unknown species *O. applanatus* selected as the type species by Vogdes—this selection being due, possibly, in the opinion of the applicants, to the fact that it was the first of the new species of Hawle & Corda's cited in this genus. The long-established interpretation of this genus is based on the known species *hausmanni* and the purpose of the proposal in paragraph 9(1)(e) of the application was to give an assured basis to *Odontochile* and to avoid the risk that some day that genus might be upset through its type species (*applanatus*) being found to belong to some other genus. The application, I might perhaps add, was based upon discussions with the late Professor Rudolf Richter and with Dr. C. J. Stubblefield (*Geological Survey and Museum, London*), two of the most outstanding Trilobite specialists.

In the light of the information now received, I consider that, although the original application was not sufficiently self-explanatory on the point discussed above, there is a good case for the action in this matter recommended by the applicants and I feel confident that you will share this view. On the question of procedure I propose, in order to put this matter in its proper perspective, to include in the Commission's *Opinion*, when it comes to be written, the supplementary evidence now provided by the applicants.

4. On 30th January 1958, Professor Chester Bradley replied as follows, concurring both in the proposals submitted by the applicants and in the procedure suggested in my letter of 6th January 1958 (paragraph 3 above) :—
“ V.P.(57)35. *Encrinurus* and *Odontochile* Z.N.(S.) 1059. I have your letter of 6 January on this case and agree with you that the proper course is to publish the Commission's *Opinion*, including the additional information. In view of this information, I can now subscribe without reservation to the application.”

5. In accordance with the terms of the foregoing correspondence with Professor Bradley I now as Secretary hereby direct that when the *Opinion* embodying the Commission's decision on Voting Paper V.P.(57)35 comes to be prepared, the text of the present Minute be included therein.

15. Close of the Extension to the Voting Period in respect of Voting Paper V.P.(57)35 : Following the execution on 5th February 1958 of the Minute regarding the relationship of the nominal species *Odontochile applanatus* Hawle & Corda, 1847, and *Asaphus hausmanni* Brongniart, 1822, Mr. Hemming on the same day executed a further Minute giving directions that the Voting Period in respect of Voting Paper V.P.(57)35 which had been extended by the Secretary's Minute dated 2nd August 1957 for the purpose of enabling the foregoing enquiry to be carried out be now closed forthwith.

16. Particulars of the Voting on Voting Paper V.P.(57)35 : At the close on 5th February 1958 of the Voting Period in respect of Voting Paper V.P.(57)35,